WHAT IS CLAIMED IS:

- 1. A method for screening a test compound for the ability to activate transcription through an indirect estrogen response, the method comprising:
- a) providing a cell comprising an estrogen receptor and a promoter comprising an AP1 site which regulates expression of a reporter gene;
 - b) contacting the cell with the test compound; and
 - c) detecting the expression of the reporter gene.
 - 2. A method of claim (a), wherein the cell is an Ishikawa cell.

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- 3. A method of claim (a), wherein the cell over-expresses the estrogen receptor.
- 4. The method of claim (a), wherein the promoter is genetically engineered to comprise an AP1 site.
 - 5. The method of claim (a), wherein the test compound is known to have antiestrogenic activity.
- 20 6. The method of claim (a), wherein the cell is derived from uterine tissue.
 - 7. The method of claim 5, wherein the cell is a HeLa cell or an Ishikawa cell.

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- 8. A method of claim (a), further comprising the steps of:
- a) providing a second cell comprising an estrogen receptor and a promoter comprising a standard estrogen response element which regulates expression of a second reporter gene;

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- b) contacting the second cell with the test compound; and
- c) detecting the expression of the second reporter gene.

- 9. A method of claim 7, wherein the response element is from the Xenopus vitellogenin A2 gene.
- 10. A method of claim (a), wherein the cell further comprises a promoter comprising a standard estrogen response element which regulates expression of second reporter gene.
 - 11. A method of claim 9 wherein the response element is from the Xenopus vitellogenin A2 gene.

12. An estrogen agonist identified by the method of claim (a).

- 13. A method for screening a test compound for the ability to inhibit transcription through an indirect estrogen response, the method comprising:
- a) providing a cell comprising an estrogen receptor and a promoter comprising an AP1 site which regulates expression of a reporter gene;
 - b) contacting the cell with the test compound and a compound known to mediate an indirect estrogen response;
 - c) detecting the expression of the reporter gene.

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- 14. The method of claim 12, wherein the compound is known to mediate an indirect estrogen response is tamoxifen.
- 15. A method of claim 12, wherein the cell over-expresses the 25 estrogen receptor.
 - 16. The method of claim 12, wherein the promoter is genetically engineered to comprise an AP1 site.
- 30 17. A compound identified by the method of claim 12.

- 18. A method for screening a test environmental compound for estrogenic activity, the method comprising:
- a) providing a cell comprising an estrogen receptor and a promoter comprising an estrogen response element which regulates expression of a reporter gene;
 - b) contacting the cell with the test compound; and
 - c) detecting the expression of the reporter gene.
- 19. The method of claim 17, wherein the cell further comprises a promoter comprising an AP1 site which regulates expression of a second reporter gene.
 - 20. The method of claim 17, wherein the reporter gene is CAT.
- 21. The method of claim 17, wherein the cell over-expresses the estrogen receptor.
 - 22. The method of claim 17, wherein the cell is an ERC1 cell.
- 23. A method of inhibiting agonistic activity of an antiestrogen compound, said method comprising administering with said antiestrogen compound an inhibitor selected from the group consisting of genistein, staurosporine, 6-thioguanine, and 2-aminopurine.
 - 24. The method of claim 22, wherein said inhibiting agonistic activity comprises inhibiting an indirect estrogen response.
 - 25. The method of claim 22, wherein said antiestrogen compound is tamoxifen.
 - 26. The method of claim 22, wherein said inhibition is *in vivo*.

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- 27. An estrogen response inhibiting composition comprising an inhibitor of a classical estrogen response pathway and an inhibitor of an indirect estrogen response.
- 5 28. The composition of claim 26, wherein said an inhibitor of a classical estrogen response pathway is tamoxifen.
- 29. The composition of claim 26, wherein said an inhibitor of an indirect estrogen response is selected from the group consisting of genistein, stauorsporine, 6-thioguanine, and 2-aminopurine.